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SCCX Series

Instruments for Industry, SCCX Series Solid State amplifiers provide outstanding RF performance. Operating over the fre¬quency range from 10 KHz to 220 MHz and can be supplied at power levels up to 800 watts offering all the control and communication features needed for today's automated test systems. From the ground up, the SCCX Series amplifiers are built to withstand rugged handling, whether it's being shipped to you or hauled around from site to site.

Operation safety and ease of use are paramount in IFI product designs. The IFI SCCX Series include a full complement of RF and hardware protection circuits including high VSWR, over-current, voltage protection, redundant thermal and airflow sensors for the module and system level. In addition, the SCCX series includes an intuitive interface that is sophisticated, comprehensive, and yet simple to use. The color interface displays forward/reverse power indication, system status and self-diagnostic information. All the amplifiers operating parameters are simultaneously available via the interface as well as over the remote bus. Selection via the interface allow you to switch the amplifier to the desired mode of operation for local control if the unit is not being operated remotely.

For remote control operation USB, Ethernet, GPIB and RS232 interface are provided as standard. To meet individual application needs, the SCCX Series amplifiers can be easily customized with other options. With this capability and its reliable design, the SCCX series amplifiers are the perfect system for your applications.

MAIN FEATURES

- Intuitive user interface
- Rugged Modular Design Construction
- USB, Ethernet, GPIB and RS232 interface
- Built in Calibrated Directional Coupler
- 3 year warranty

Models & General Specifications

Model Number	Frequency Range	Rated Power	P1dB Power	Gain	Mains Power	Weight	Size
SCCX100	10 kHz -	100 W	80 W	50 dB	0.9 kVA	18 kg	19 inch, 3U Rack Case, 680 mm Deep
SCCX150		150 W	100 W	52 dB	1.5 kVA	19 kg	
SCCX250	220 MHz	250 W	200 W	54 dB	2.4 kVA	55 kg	19 inch, 4U Rack Case, 680 mm Deep
SCCX400		400 W	320 W	56 dB	3 kVA	44 kg	19 inch, 8U Rack Case, 680 mm Deep
SCCX500		500 W	300 W	57 dB	4 kVA	46 kg	
SCCX800		800 W	500 W	59 dB	7 kVA	182 kg	19 inch, 12U Rack Case, 680 mm Deep

Specifications subject to change without notice. Ametek CTS is an ISO accredited Company. Products are designed and manufactured under strict quality and environmental requirements of ISO 9001.

RF Specifications

Gain Variation (max) ±	+/- 3.0 dB
Harmonics @ P1dB	-20 dBc
Spurious (min.)	-60 dBc
Modulation Formats	AM, FM, Pulse
Gain Control	0-30 dB in 255 Steps
Output VSWR Tolerance	Infinite any phase (< 4:1 no foldback, > 4:1 gradual foldback)
Stability	Unconditional
Output Impedance	50 Ohm
Input VSWR	2:1 (max)
Output VSWR	2.5:1 (max)
Spurious	-70 dBc

General Specifications

Safety Interlock	Via rear panel mounted BNC-female
Supply Voltage	< 3KVA Single Phase 90 to 264 VAC > 3KVA Three Phase, 5 Wire STAR, 380 to 415 VAC / 4 Wire Delta, 208 to 240 VAC
Supply Frequency	47 to 63 Hz
RF Input Connector	Type N female
RF Output Connector	Type N or 7/16 Female
Com. Interface	GPIB, RS232, Ethernet & USB
Cooling System	Air Cooled, Self-contained

Available Models

Product	Description
SCCX100	10 KHz to 220 MHz 100W Broadband Power Amplifier
SCCX150	10 KHz to 220 MHz 150W Broadband Power Amplifier
SCCX250	10 KHz to 220 MHz 250W Broadband Power Amplifier
SCCX400	10 KHz to 220 MHz 400W Broadband Power Amplifier
SCCX500	10 KHz to 220 MHz 500W Broadband Power Amplifier
SCCX800	10 KHz to 220 MHz 800W Broadband Power Amplifier